Electronic Supplementary Material (ESI) for RSC Advances. This journal is © The Royal Society of Chemistry 2020

Supplementary material

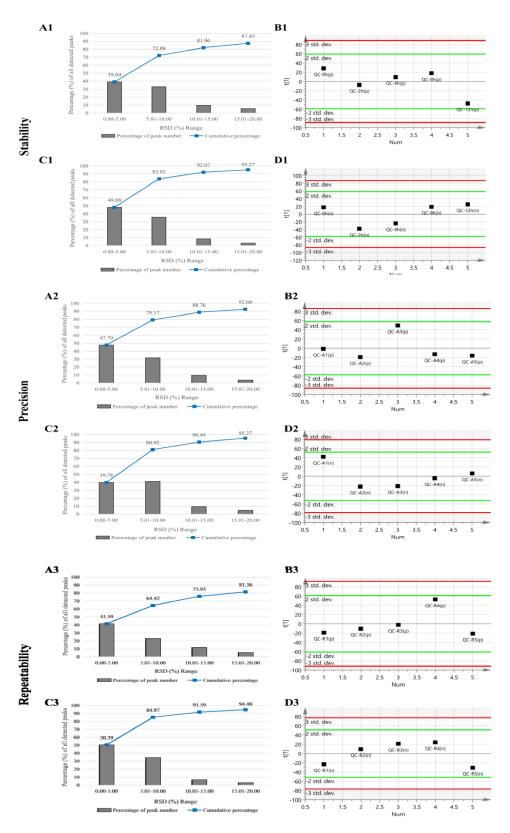


Fig. S1. Evaluation of analytical characteristics, including stability, precision and repeatability. (A1-3) and (C1-3) show the distribution of %RSD for metabolites' areas in QC samples in positive and

negative mode, respectively. (B1-3) and (D1-3) are score plots of PCA for QC samples in positive and negative mode, respectively. The percentage of compound numbers within corresponding %RSD range is represented by each column. The line reveals the accumulative percentage of responses.

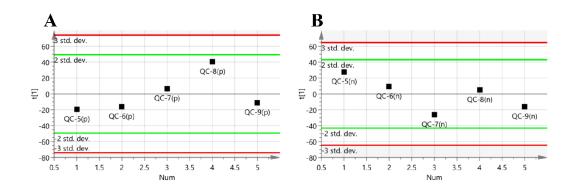


Fig. S2. PCA score plots of QC samples in positive (A) and negative (B) mode.

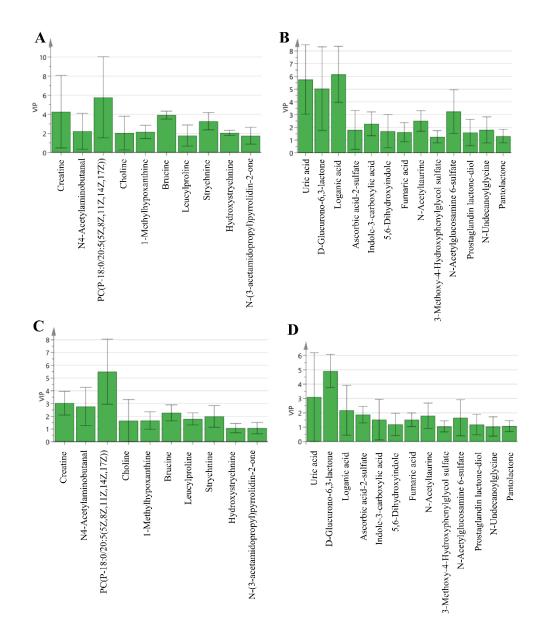


Fig. S3. (A, C) and (B, D) are the Column plots of VIP value with jack-knifed confidence intervals in positive and negative mode, respectively.

p value in Table 1, 2 and 3.

Table 1. SG vs. CG p=0.001 (ALT); SG vs. CG p=0.025 (TP); SG vs. CG p=0.003 (ALB); SG vs. CG p=0.000, SGG vs. SG p=0.04 (CREA); SGG vs. SG p=0.012 (TG); SG vs. CG p=0.001 (GLU). **Table 2.** SG vs. CG, the p values from number 1 to 19 are 0.002, 0.000, 0.018, 0.037, 0.001, 0.001, 0.002, 0.000, 0.015, 0.000, 0.003, 0.001, 0.011, 0.009, 0.002, 0.000, 0.000, 0.000, 0.003, respectively.

SGG vs. SG, the p values from number 1 to 19 are 0.000, 0.000, 0.015, 0.013, 0.000, 0.006, 0.000, 0.018, 0.000, 0.000, 0.001, 0.009, 0.014, 0.000, 0.007, 0.000, 0.001, 0.000, 0.004, espectively. **Table 3.** SG vs. CG, the p values from number 1 to 4 are 0.000, 0.000, 0.000, 0.000, respectively.

SGG vs. SG, the p values from number 1 to 4 are 0.007, 0.000, 0.000, 0.000, respectively.

The raw data of biochemical indexes. biochemical indexes.xlsx

The HPLC-MS raw data files (.d). HPLC-MS raw data files